

ABSTRACT

The invention relates to a device to filter and damp the vibrations between a first element subjected to an incident vibratory wave and a second element radiating a filtered vibratory ~~wave~~wave.

———This device comprises an interface structure to transfer vibratory energy constituted by at least one elastic component and at least one dissipative component attached in parallel to the elastic component to ensure the filtration and damping of the incident vibratory wave, the dissipative component being constituted by two separate rigid frames ensuring, punctually or continuously, deflection functions, if required, by a lever arm effect, amplification of the vibratory energies generated by the elastic components towards a dissipative material positioned between ~~them, said~~ them, the dissipative component providing damping for the elastic component.